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(54) POWDER COATING MATERIAL, COATING OF POWDER AND POWDER COATED PRODUCT

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a powder coating material capable of forming a coating membrane having an arbitrary color tone and further a coating membrane having an excellent design, and used for coating by an electrostatic coating method using a powder- fluidized vessel by regulating both a volume resistivity and an average particle diameter.

SOLUTION: This powder coating material has 10^{10} - $10^{17}\Omega$.cm volume resistivity and 5-500 μm average particle diameter of the powder coating material being formed into a fluidized state by air. The powder coating material capable of imparting required physical properties to a coating material can be obtained by mixing two or more kinds of the powder coating materials not only in the case using the same resin in the powder coating materials but also in the case using the different resins. The powder coating material having an arbitrary color tone is prepared by blending powder coating materials having different colors. Concretely, for example, the powder coating

materials having fundamental colors of yellow, red, blue, black and white are prepared to have various kinds of particle diameters respectively as base colors, and the powder coating material having the required color tone and hue is obtained by combining the powder coating materials having fundamental colors and various diameters.

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